

FIG. 1

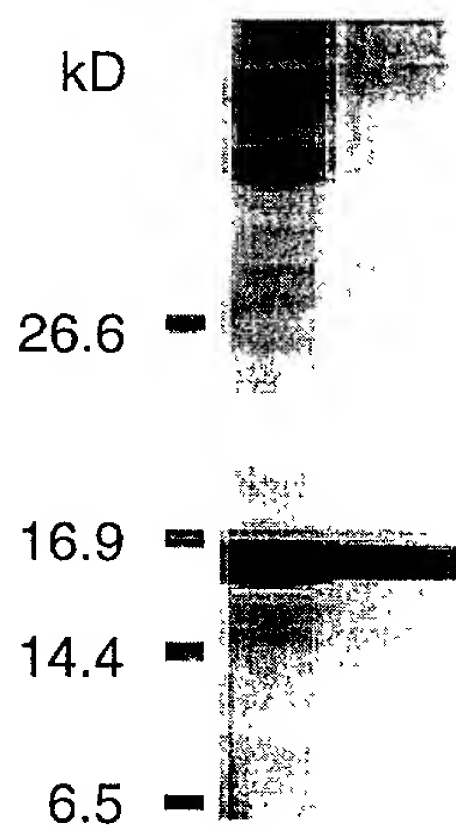


FIG. 2

**C4 Column**

Absorbance at 214nm

Activity - - + - - - - -

Time → % Acetonitrile

**C18 Column**

Absorbance at 214nm

Activity - - - - - +

Time → % Acetonitrile

The figure is a mass spectrum plot with 'Counts' on the y-axis (ranging from 1100 to 1800) and 'Mass (m/z)' on the x-axis (ranging from 5000 to 30000). Two main peaks are labeled:  $MH_2^{2+}$  at approximately 7500 m/z and  $MH^+$  at approximately 14000 m/z. An inset in the upper right corner provides a magnified view of the mass range from 20,000 to 25,000 m/z, showing two distinct peaks labeled '1' and '2'. Peak '1' is at approximately 21000 m/z and peak '2' is at approximately 22000 m/z.

FIG. 4

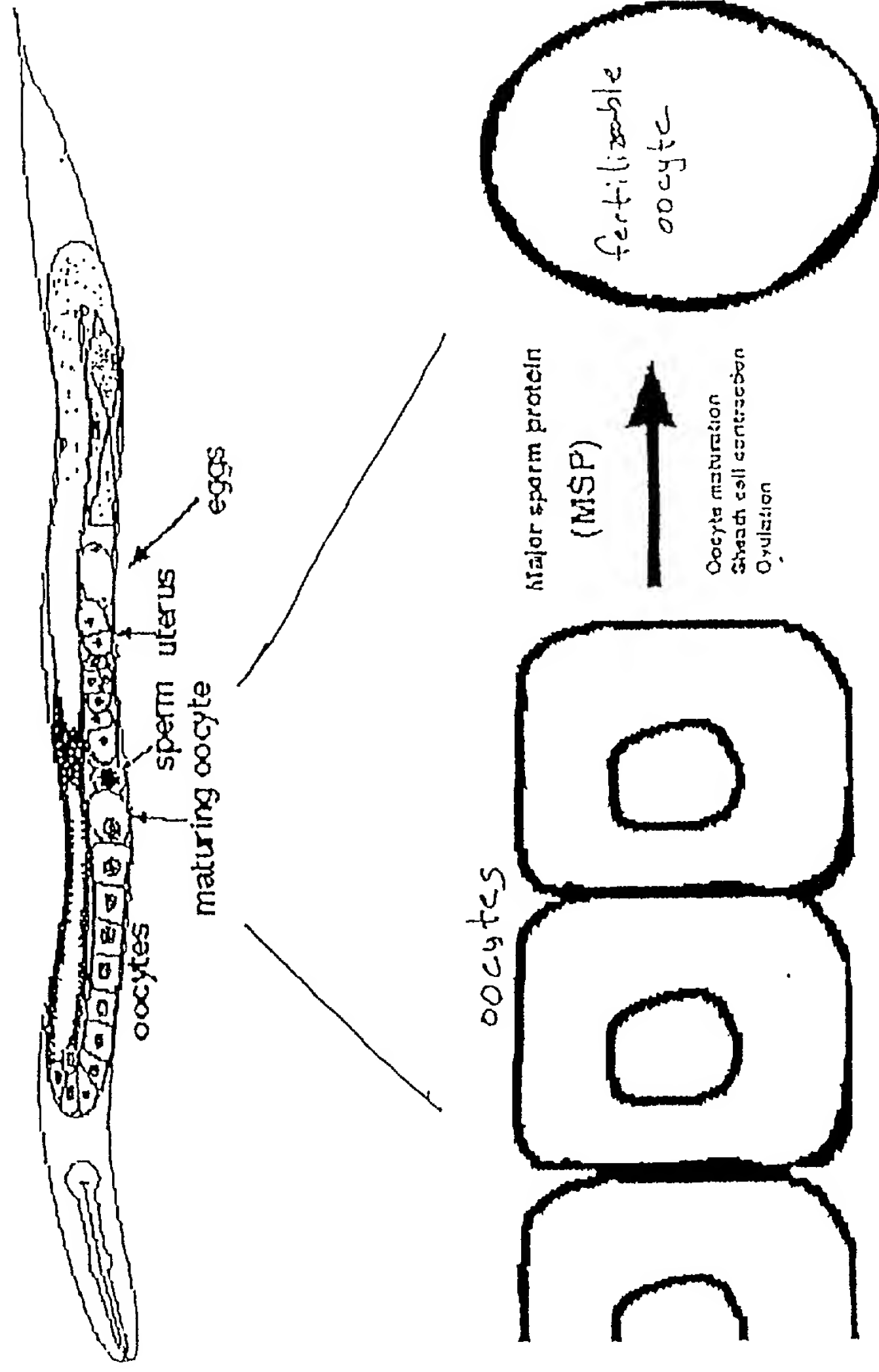


FIG. 5



	80	90	100	110	120	127	
MSP-3	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAARQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:2	
MSP-10	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:3	
MSP-19	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:1	
MSP-31	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:1	
MSP-33	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:4	
MSP-38	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:5	
MSP-40	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:1	
MSP-45	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:1	
MSP-49	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:6	
MSP-50	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:1	
MSP-51	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:1	
MSP-53	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:7	
MSP-55	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:3	
MSP-56	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:7	
MSP-57	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:1	
MSP-59	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:8	
MSP-63	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:1	
MSP-64	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:1	
MSP-65	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:3	
MSP-76	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:9	
MSP-77	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:10	
MSP-78	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:9	
MSP-79	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:1	
MSP-81	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:1	
MSP-113	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:1	
MSP-142	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:1	
MSP-152	LAVSCDAFAFGQEDTNNDRI	ITVEWTNT	PDGAAKQFRREWF	QDGMVRRKNLPIEYNP	SEQ	ID NO:3	

FIG. 6 – Continued

	10	20	30	40	50	60	70
MSP-142	MAQSVPPGDI	QTQPGTKIVFNAPYDDKH	TYHIKVINSSARRIGY	GIKTTNMKRLGVDP	PCGVLDPKE	AVL	
P27439	MAQSVPPGDINTQP	SQKI VFNAPYDDKH	TYHIKITNAGRRIGW	AIKTTNMRRLS	VDP	PCGVLDPKE	KVL
P27440	MAQSVPPGDINTQPGS	KIVFNAPYDDKH	TYHIKITNAGRRIGW	AIKTTNMRRLGVDP	PCGVLDPKE	SVL	
	80	90	100	110	120	127	
MSP-142	LAVSCD	AFAGQED	TNNDRIT	VEWTNTPDGA	AKQFRREWFQ	GDGMVRRKNLPIEYN	P SEQ ID NO:1
P27439	MAVSCDTFNA	ATEDLNNDRI	TIEWTNTPDGA	AKQFRREWFQ	GDGMVRRKNLPIEYN	L SEQ ID NO:11	
P27440	MAVSCDTFNA	ATEDLNNDRI	TIEWTNTPDGA	AKQFRREWFQ	GDGMVRRKNLPIEYN	L SEQ ID NO:12	

FIG. 7

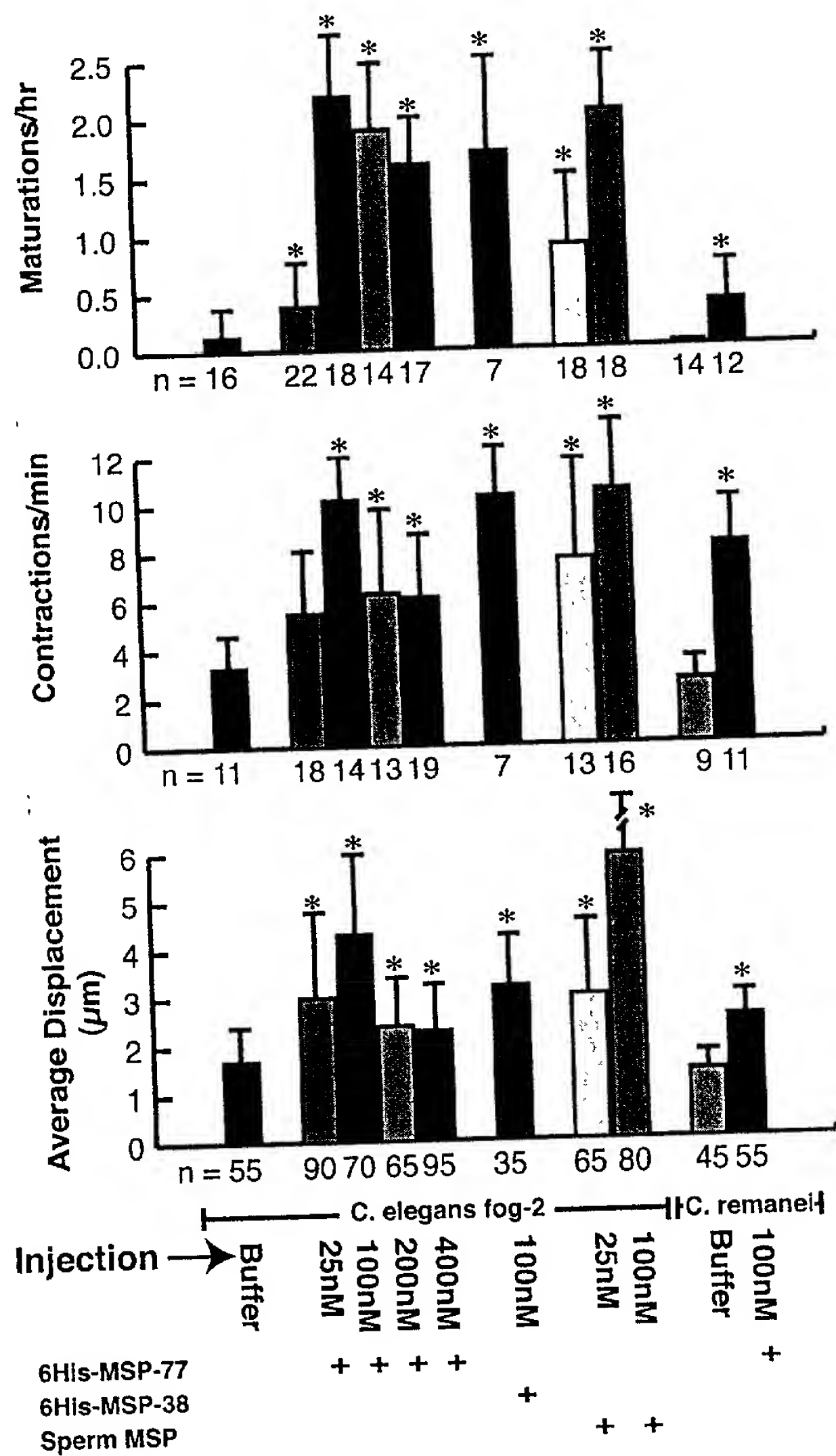


FIG. 8

0963063-052103

	110	120
AsMSP $\alpha$	REWFQGDGMVRRKNLPIEYNL	
AsMSP $\beta$	REWFQGDGMVRRKNLPIEYNL	
GrMSP1	LEWFQGDGMVRRKNLPIEYNV	
GrMSP2	LEWFQGDGMVRRKNLPIEYNV	
GrMSP3	LEWFQGDGMVRRKNLPIEYNV	
CeMSP142	REWFQGDGMVRRKNLPIEYNP	
CeMSP33	REWFQGDGMVRRKNLPIEYNP	
OvMSP1	REWFQGDGMVRRKNLPIEYNL	
OvMSP2	REWFQGDGMVRRKNLPIEYNL	

FIG. 9



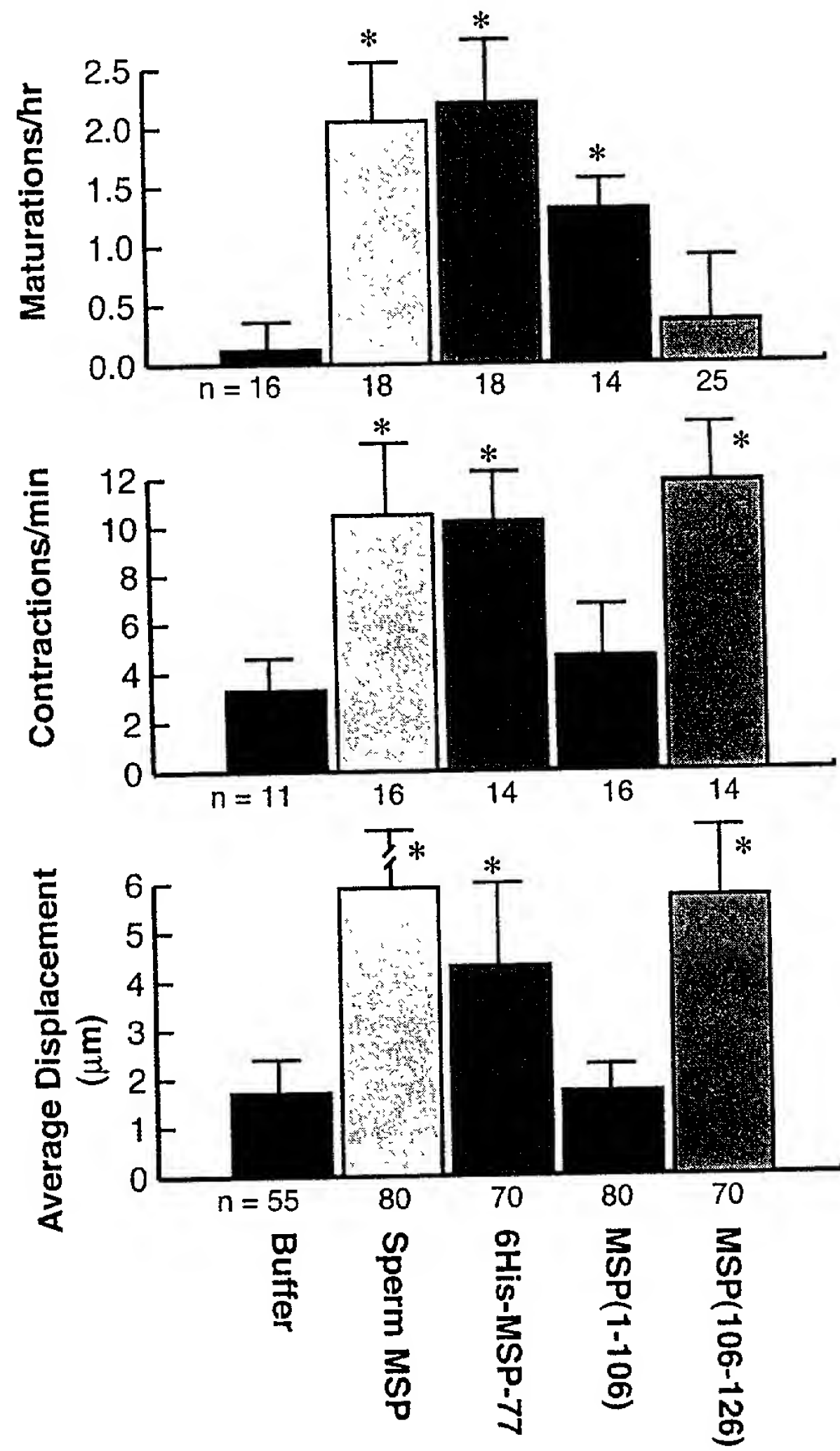


FIG. 10